



## 2024 Applied Materials, Inc. ISE Scholarship Award

In the fall of 2024, the ISE Department was honored to receive a gift of \$30,000 from Applied Materials. This gift was designated to be distributed as 6 (six) \$5,000 scholarships to selected Industrial and Systems Engineering undergraduate students. Criteria for the award included having a career goal of working in logistics and supply chain engineering. An awards committee selected these six students from over 20 applications received. The awards were announced on October 8, 2024. Each winner has provided the paragraph below in appreciation of this award.



**Deema Saadik**

Deema Saddik is a senior at San Jose State University majoring in Industrial and Systems Engineering with a minor in Computer Science. As President of the IISE club on campus, she leads professional development opportunities for her peers while applying her passion for continuous learning and improvement. With over three years of experience tutoring STEM subjects and seven years of teaching elementary students, Deema is dedicated to helping others grow academically. She aspires to work in supply chain management, optimizing operations in logistics, transportation, and healthcare by leveraging her expertise in process improvement and data analysis. Combining engineering precision with business acumen, Deema aims to enhance efficiency, reduce costs, and improve customer satisfaction. Outside of her studies, she enjoys spending time with family and friends, practicing calligraphy and pottery, exploring new coffee spots, and reconnecting with nature through hiking and beach visits.



**Minh Tri Huynh**

At Samsung Electronics in Vietnam, Minh Tri participated in innovation projects that improved material deployment and quality, including resizing trolleys to fit materials better, reducing transportation costs and defects. As a production scheduler at SMTC Corporation, Minh Tri optimized production by leveling customer demand, minimizing overtime, and improving material turnover. Starting as a Material Buyer in 2019 for Samsung, Minh Tri gained valuable insights into supply chain operations, playing a key role in its efficiency. After moving to the USA, Minh Tri worked as a Production Planner/Scheduler for SMTC, ensuring efficient manufacturing schedules and on-time deliveries. These experiences solidified Minh Tri's interest in supply chain management and led to pursuing a degree in Industrial and Systems Engineering (ISE), which Minh Tri believes is crucial for optimizing processes, enhancing productivity, and driving business success through innovation.



**Vivian Hy**

Vivian is a first-generation college student pursuing a degree in Industrial and Systems Engineering with an interest in Supply Chain Management.

At San Jose State University, she assists students and faculty as an instructional student assistant for ISE courses. Her experience includes an internship in Procurement at Western Digital, where she had the opportunity to develop and refine procurement strategies, assess supplier performance, and manage RFQs and RFPs to optimize the total cost of ownership for high-impact tools. This experience sparked an interest in supply chain processes, where she can combine her engineering background with a strong business perspective.

Vivian is excited about the prospect of contributing to innovative and efficient supply chain solutions and looks forward to growing in this field.



## 2024 Applied Materials Scholarship Award Winners

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### **Martha Maranga**

Martha Maranga is a fourth-year student in the Industrial and Systems Engineering (ISE) program at SJSU. She has a passion for learning and is genuinely excited about the future. This past summer, Martha interned at PepsiCo, analyzing and improving the throughput of their Automated Storage and Retrieval System (ASRS). She enhanced efficiency by identifying bottlenecks and implementing changes. Logistics and supply chain management attracts her due to the intersecting challenges, requiring strategic and critical thinking to optimize processes while minimizing costs. She particularly enjoys the problems associated with balancing factors such as demand, inventory, and transportation.

Martha is sincerely grateful for the Applied Materials Scholarship award, as the support enables her to focus more on her studies and pursue opportunities for academic and professional growth.



### **Yusef Roshan**

Rahmanullah Yusuf Roshan was born and raised in Dublin California. When in middle school, he had the opportunity to tour the Tesla factory in Fremont. While on the tour, he spoke to one of the guides and asked what he could study to make these machines, robots, and giant moving arms. The guide told him that rather than making new machines to build their vehicles, he should consider doing something that would improve the machines and processes. Later he researched what type of engineer improves these machines. He found out industrial engineers improve supply chain and make their factories more efficient. Family member recommendations brought him to SJSU's ISE program.



### **Mihir Purani**

Mihir Purani is in his final year studying Industrial & Systems Engineering (BS). He is grateful for receiving this prestigious award and for the support shown by the ISE faculty and Applied Materials. Mihir is excited to continue pursuing a career in industrial engineering and supply chain. He gained valuable experience working as a Supply Chain Analyst intern at Solidigm (formerly Intel NAND Division) for a year, which provided him with deep exposure to supply chain, semiconductor manufacturing, and operations management. He further expanded his industry experience with systems engineering projects and supply chain applications during his time as an Industrial/ Manufacturing Engineering Intern at Siemens. Mihir also serves as the Vice President of the SJSU IISE chapter. This leadership role has been a valuable experience, where he has been involved in organizing events for the IISE club and its members. Through these events, his goal is to help members further their knowledge and connections within the industrial engineering and supply chain fields.